

### Table 1-1 Summary of Compliance February 2006

Extraction Well Network	Compliance Criteria Met (yes/no)	Comments				
Flow Rate Performance - Target Extraction Rate						
Newmark North Extraction Well Network	No	The City is unable to sustain the three month rolling average Target Extraction Rate for the Newmark North extraction well network (see Table 2-3). A letter informing the EPA and DTSC of this condition was sent out on July 25, 2005. An evaluation of the conditions causing this flow rate variance was submitted December 6, 2005.				
Newmark Plume Front Extraction Well Network	NA	Flow rate performance criteria are not applicable until the Muscoy OU is declared Operational and Functional				
Muscoy Plume Extraction Well Network	NA	Flow rate performance criteria are not applicable until the Muscoy OU is declared Operational and Functional				
	Flow Performa	nce - Particle Tracking				
Newmark Plume Front Extraction Well Network	NA	Flow performance criteria for the Newmark OU IRA are not applicable until particle tracking methodology proposed in the Operational Sampling and Analysis Plan is approved.				
Muscoy Plume Extraction Well Network	NA	Flow performance criteria are not applicable until the Muscoy OU is declared Operational and Functional and the addendum OSAP is approved.				
Contami	nant Performance	- Down gradient Monitoring Wells				
Newmark Plume Front Extraction Well Network	NA	The first monitoring well sampling round for evaluating contaminant performance was conducted in November 2005. Laboratory analysis was performed by EPA's contract laboratory with EPA oversight. The analytical data will be reported within 30 days of receiving validated data from EPA.				
Muscoy Plume Extraction Well Network	NA	Contaminant performance criteria are not applicable until the Muscoy OU is declared Operational and Functional				

### Notes:

NA - not applicable (see comment for reason)

## Table 2-1 Summary of Newmark OU O&M - Extraction Wells

Reporting Period: February 1 2006 through February 28, 2006

System Operational & Functional Date: October 1, 2000 (1)
Operations Completed: 5 years 5 months

Newmark North Plan	Newmark North Plant Extraction Well Network (EPA 006, EPA 007, Newmark 3)					
Description Routine Maintenance Performed	Daily equipment checks performed (see DHS report), monthly hands on physical, annual oil change, semi-annual check of VFD					
Description of Problems Encountered	1. EPA 006 is currently operating on a steady 18 hour daily schedule due to the pump breaking suction after extended pumping periods. The break in suction is believed to result from declining water levels as reported in our December 6, 2005 submission to modify Target Extraction Rates. The pump was last tested on June 30, 2005, and found to be operating normally. The break in suction does not appear to result from any mechanical problem with the pump.					
Description of Process Improvements Implemented	None					
Deviations from the Operational Requirements of the Consent Decree	Unable to meet the three month rolling average Target Extraction Rate (see notification letter to the EPA/DTSC dated July 25, 2005). North Plant Sustainable Rate letter was submitted to EPA/DTSC on December 6, 2005 seeking a downward adjustment in the Target Extraction Rate to conform extraction rates to historical performance of the wells and declining water levels in the area. Current production is in compliance with the proposed revised production limit.					
Newmark Plume Front Extrac	tion Well Network (EPA 001, EPA 002, EPA 003, EPA 004, EPA 005)					
Description Routine Maintenance Performed	Daily equipment checks performed (see DHS report), monthly hands on physical, annual oil change, semi-annual check of VFD					
Description of Problems Encountered	EPA 003 flow is 1541 GPM due to falling water table.					
Description of Process Improvements Implemented	The flow was increased to an average of 1600 GPM for EPA 001,002,004 and 005 to compensate for the lost flow at EPA003.					
Deviations from the Operational Requirements of the Consent Decree	None					

<sup>(1)</sup> The USEPA declared the Newmark OU Operational and Functional on October 1 ,2000.

Table 2-2
Summary of Extraction Well Flow Data
February 2006

	Monthly Extracted	Average Monthly	Cumulative Volume	Number of Days in Month =	28
Extraction Well	Water Volumes (acre-ft)	Flow Rate (gpm)	Extracted <sup>(1)</sup> (acre-ft)	Monthly Run Time (days)	Monthly Down Time (days) <sup>(2)</sup>
	ı	Newmark North Plant Ex	traction Well Network		
EPA 006	73.2	591	3,678	19.1	8.9
EPA 007	172.6	1,395	8,144	28.0	0.0
Newmark 3	115.3	932	5,693	28.0	0.0
Network Total	361.1	2,918	17,515		
	N	lewmark Plume Front Ex	traction Well Network		
EPA 001	197.5	1,596	10,622	28.3	-0.3
EPA 002	200.3	1,619	11,719	28.3	-0.2
EPA 003	190.7	1,541	13,079	28.0	0.0
EPA 004	205.1	1,658	12,559	28.1	-0.1
EPA 005	203.4	1,644	11,416	28.1	-0.1
Network Total	997.1	8,057	59,395		

Per the terms of the Statement of Work, once Muscoy is declared O&F the City will be required to demonstrate flow compliance with each extraction well networks Target Extraction Rates considering the specified maintenance allowances. At such time the City will provide the supporting calculations in a tabular format.

- NA Not available
- (1) Cumulative volume extracted since Newmark OU System Operations Date (October 1, 2000)
- (2) The run time meters are read on the 1st of each month as close to the same time of day as possible. However, the total monthly run time for each extraction well may be higher or lower than the actual run time due to the effect of the difference in time of the day the field measurements are recorded for the beginning and end of the month.

Table 2-3
Three Month Rolling Average Extraction Volume and Extraction Rate Calculations
February 2006

		Run Tim	es (Days)			Extraction Volumes (acre ft)			Extraction Rates (gpm)				
Extraction Well	December 2005	January 2006	February 2006	Total For Last Three Months	Total Down Time For Last Three Months	December 2005	January 2006	February 2006	Total Pumpage Last Three	Three Month Rolling Average Extraction Rate (3)	Design Extraction Rate (DER)	Target Extraction Rate (TER) (1)	Difference Between Three Month Rolling Average and
Days in Period >>	31	31	28	90					Months	Extraction Nate		(IEK)	TER
					New	mark North Pla	ant Extraction	Well Network	3)				
EPA 006 <sup>(2)</sup>	16.0	15.6	19.1	50.6	39.4	59.8	59.0	73.2	191.9				
EPA 007	31.0	31.0	28.0	89.9	0.1	190.4	191.0	172.6	554.0				
Newmark 3	31.0	31.0	28.0	90.0	0.0	125.6	127.0	115.3	367.9				
Network Total						375.8	376.9	361.1	1113.8	2800.1	3900.0	3520.8	-720.7

NA - Not Applicable

- (1) TERs are adjusted for the maintenance allowance.
- (2) This extraction well can only be operated 12 hours a day in order to avoid pump cavitation created by the depleted aquifer conditions.
- CD Consent Decree
- DER Design Extraction Rate
- gpm gallons per minute
- O&F Operable and Functional
- SOW Statement of Work (entered with CD March 23, 2005)
- TER Target Extraction Rate
- (3) Current three month rolling average is consistant with the proposed revised extraction rate.

Table 2- 4
Extraction Well Monitoring Results - PCE and TCE
February 2006

Extraction Well	Date Sampled	PCE Concentration (μg/L)	TCE Concentration (μg/L)
	Newmark Nort	h Extraction Well Network	
EPA 006	NM	NM	NM
EPA 007	NM	NM	NM
Newmark 3	NM	NM	NM
	Newmark Plume F	Front Extraction Well Network	
EPA 001	NM	NM	NM
EPA 002	NM	NM	NM
EPA 003	NM	NM	NM
EPA 004	NM	NM	NM
EPA 005	NM	NM	NM

These data have been collected and validated using standard SBMWD protocol as required under SBMWDs DHS Permit. Once the project QA/QC Plan has been prepared and approved, SBMWD will adhere to the QA/QC plan when sampling the extraction wells and validating laboratory data. NM - Not monitored during the reporting period.

## Table 3-1 Summary of Newmark OU O&M - GAC Treatment Plants

Reporting Period: February 1 2006 through February 28, 2006

System Operational & Functional Date: October 1, 2000<sup>(1)</sup>
Operations Completed: 5 years 5 months

Newmark North GAC Treatment Plant				
Description Routine Maintenance Performed	Daily equipment checks performed (see DHS report)			
Description of Problems Encountered	Encountering trouble with lifting vault lids for Chlorine injection/Cla-valve. Lids are extremely difficult to open. The inspection on December 21, 2005 determined that the lids must be replaced with torsion assist lids. Anticipated repair re-scheduled for April 2006.			
Description of Process Improvements Implemented	EPA006 production increased to 18 hours a day; current production is at 864 gpm and steady.			
Deviations from the Operational Requirements of the Consent Decree	None			
	17th Street GAC Treatment Plant			
Description Routine Maintenance Performed	Daily equipment checks performed (see DHS report)			
Description of Problems Encountered	None			
Description of Process Improvements Implemented	None			
Deviations from the Operational Requirements of the Consent Decree	None			
	Waterman GAC Treatment Plant			
Description Routine Maintenance Performed	Daily equipment checks performed (see DHS report)			
Description of Problems Encountered	Encountering trouble with lifting vault lids for Chlorine injection/Cla-valve. Lids are extremely difficult to open. The inspection on December 21, 2005 determined that the lids must be replaced with torsion assist lids. Anticipated repair re-scheduled for April 2006.			
Description of Process Improvements Implemented	None			
Deviations from the Operational Requirements of the Consent Decree	None			

# Table 3-2 Summary of Treatment Plant Flow Data and Mass Removal Estimates February 2006

Treatment Plant	Extraction Wells Treated By Plant	Treated Water Volumes (acre-ft)	Average Monthly Flow Rate (gpm)	Estimated Monthly GAC Mass Removal	Estimated Cumulative GAC Mass Removal <sup>(2)</sup> (lbs)
Newmark North GAC Treatment Plant	EPA 006, EPA 007 and Newmark 3	361.1	2,918.0	3.5	284.2
17th Street GAC Treatment Plant	EPA 003	190.7	1,541.0	2.2	196.5
Waterman GAC Treatment Plant <sup>(3)</sup>	EPA 002, EPA 004 and EPA 005	608.9	4,920.7	4.6	478.6
Total		1,160.7	9,379.7	10.4	959.3

#### Notes:

- (1) Monthly mass removal estimates are based on Monthly Treatment Summary sheets documented in monthly DHS reports.
- (2) Cumulative mass removal estimates are for the period since Newmark was declared O&F (October 1, 2000). The historical estimate prior to Consent decree entry is based on a combination of carbon life loading history data and Monthly Treatment Summary spreadsheet.
- (3) Since the beginning of March extracted groundwater from ÉW-1 has been diverted to the 19th Street Treatment Plant. Therefore, the sum of volume of groundwater extracted from Newmark OU wells is different then the sum of the volume treated by the Newmark OU treatment plants.

Table 3-3
Treatment Plant Monitoring Results - PCE and TCE
February 2006

Treatment Plant	Date Sampled	PCE Concentration (μg/L)	TCE Concentration (μg/L)				
Newmark North GAC Treatment Plant							
Combined Extraction Well Influent	8-Feb-06	3.0	<0.5				
Lead Vessel Effluent 1	8-Feb-06	0.6	0.6				
Lead Vessel Effluent 2	8-Feb-06	1.9	0.6				
Lead Vessel Effluent 3	8-Feb-06	<0.5	<0.5				
Lead Vessel Effluent 4	8-Feb-06	<0.5	<0.5				
Lead Vessel Effluent 5	8-Feb-06	<0.5	<0.5				
Lead Vessel Effluent 6	8-Feb-06	<0.5	<0.5				
Lead Vessel Effluent 7	8-Feb-06	<0.5	<0.5				
	1-Feb-06	<0.5	<0.5				
Combined Treatment Plant Effluent	8-Feb-06	<0.5	<0.5				
Combined Treatment Flant Enident	16-Feb-06	<0.5	<0.5				
	23-Feb-06	<0.5	<0.5				
	17th Street GAC Treatment	t Plant					
Combined Extraction Well Influent	8-Feb-06	3.6	1.0				
Lead Vessel Effluent 1	8-Feb-06	1.6	1.0				
Lead Vessel Effluent 2	8-Feb-06	1.7	1.1				
Lead Vessel Effluent 3	8-Feb-06	1.9	1.1				
	1-Feb-06	<0.5	<0.5				
Combined Treatment Plant Effluent	8-Feb-06	<0.5	<0.5				
Combined Treatment Flant Enident	16-Feb-06	<0.5	<0.5				
	23-Feb-06	<0.5	<0.5				
	Waterman GAC Treatment	Plant					
Combined Extraction Well Influent	8-Feb-06	2.1	0.6				
Lead Vessel Effluent 1	8-Feb-06	3.0	1.1				
Lead Vessel Effluent 2	8-Feb-06	2.2	1.1				
Lead Vessel Effluent 3	8-Feb-06	2.8	1.0				
Lead Vessel Effluent 4	8-Feb-06	3.3	1.1				
Lead Vessel Effluent 5	8-Feb-06	3.1	1.1				
Lead Vessel Effluent 6	8-Feb-06	4.8	2.3				
Lead Vessel Effluent 7	8-Feb-06	3.7	1.2				
Lead Vessel Effluent 8	8-Feb-06	3.6	1.2				
	1-Feb-06	<0.5	<0.5				
Combined Treatment Plant Effluent	8-Feb-06	<0.5	<0.5				
Combined Treatment Plant Ellident	16-Feb-06	<0.5	<0.5				
	23-Feb-06	<0.5	<0.5				

These data have been collected and validated using standard SBMWD protocol as required under SBMWDs DHS Permit. Once the project QA/QC Plan has been prepared and approved, SBMWD will adhere to the QA/QC plan when sampling the extraction wells and validating data.

NM - Not monitored during the reporting period

### Table 4-1 Summary of Newmark OU O&M - Water Level Monitoring

Reporting Period: February 1 2006 through February 28, 2006

System Operation Date: October 1, 2000 Operations Completed: 5 years 5 months

Newmark and Muscoy OU Monitoring Wells					
Description of Routine Monitoring and	Periodic download of RTU based water level data and RTU hardware, software and sensors checks. Collection of manual water levels to				
Maintenance Performed	verify RTU based readings.				
Description of Problems Encountered	None.				
Description of Process Improvements	New high speed radio was tested using MW10. Results were very good for overall wireless communication especially with collecting water				
Implemented	logs over the wireless network.				
Deviations from the Operational Requirements of the Consent Decree	None. Daily water level readings were collected each day as required by the SOW.				
	Newmark and Muscoy OU Extraction Wells				
Description Routine Monitoring and Maintenance Performed	Periodic download of water level data from RTUs as part of the completion of the Muscoy OU startup aquifer testing (per the schedule in the EPA/URS Field Sampling Plan) and less frequently for extraction wells monitored as part of Newmark OU IRA operations.				
Description of Problems Encountered	None.				
Description of Process Improvements Implemented	None				
Deviations from the Operational Requirements of the Consent Decree	None. Daily water level readings were collected each day as required by the SOW.				
	Site-Wide Monitoring Wells				
Description Routine Monitoring and Maintenance Performed	Collected monthly manual water level measurements on February 22, 2006				
Description of Problems Encountered	The City is unable to collect Site-Wide manual water levels from some of the wells designated in the SOW due to access limitations, water level depths beyond the length of the sounding tape or omissions. See list below.				
Description of Process Improvements Implemented	None				
Deviations from the Operational Requirements of the Consent Decree	The Site-Wide manual water levels were not collected from the following wells: MW 126 (well appears to be dry,), PZ-124 (well appears to be dry,). Muscoy Mutual No. 5 (air line installed by Muscoy Mutual prevents the lowering of the sounding tape and we are not authorized to remove. The City has purchased a Solinst, Model 102 with a P2 segmented probe Sounder. This segmented probe is designed to enter small diameter casings and is the heaviest of the flexible probes which should keep the tape going down the hole straight with less chance of being pulled to the side of the casing or into the screen where we think the stainless steel probes are getting caught. The City also installed a tee fitting in this well to allow easier access with the new sounder). 31st and Mt View is located in a confined space, the City is in the process of developing an alternative measuring method to monitor this well.				
	Wells Monitored Voluntarily				
Description of Routine Monitoring and Maintenance Performed	Collected monthly manual water level measurements. Downloaded electronic water level data from USGS website.				
Description of Problems Encountered	None				

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# Table 6-1 Schedule of Upcoming O&M, Monitoring and Reporting Events Planning Period: March / April 2006

Task/Item	Planned Event
Newmark OU Extraction Wells	
Pump/Well Maintenance	Pumping equipment change out EPA 003 - anticipated during spring 2006
Electrical/Controller Maintenance	Routine preventative maintenance, repair as needed.
SCADA System and RTU System Maintenance	Overall system check- Hardware, software, instrumentation, radio communications. Repair as needed.
Extraction Well Monitoring	Download water level data and check RTU offsets.
Other	None
Newmark OU Treatment Plants	
Carbon Change Outs	None
Electrical/Controller Maintenance	None
SCADA System and RTU System Maintenance	Overall system check- Hardware, software, instrumentation, radio communications. Repair as needed.
Treatment System Monitoring	Routine treatment plant sampling
Other	None
Monitoring Wells	
SCADA System and RTU System Maintenance	Overall system check- Hardware, software, instrumentation, radio communications. Repair as needed
Water Level Monitoring - SCADA Wells	Download water level data and check elevation offsets. Troubleshoot and repair transducers as needed.
Water Level Monitoring - Site-Wide Well	Collect monthly manual water levels
Monitoring Well sampling	EPA/URS sampling will be performed per the EPA schedule in support of the Muscoy OU one-year performance evaluation.
Other	None
Project Documents	
Progress Report - March 2006	Scheduled to be submitted April 30, 2006. (1)
Community Relations	
Fact Sheets	None planned
Community Meetings	None planned

<sup>(1)</sup> The SOW requires monthly progress reports be submitted 45 days after the subject data period. The SOW also requires flow and water level data be submitted 30 days after the reporting period. This progress report includes both data sets and therefore must be submitted in compliance with the most restrictive due date which is 30 days after the reporting period.

### Table 6-2 Submittal of Deliverables/Documents For 2005/2006

Deliverable	Date Submitted	Status
Groundwater Modeling Work Plan	April 15, 2005	Approved by EPA in Correspondence Dated May 26, 2005
Transmittal of Treatment Plant and Extraction Well Flow Data - March/April 2005	May 31, 2005	Submitted to EPA and DTSC.
Progress Report - March/April 2005	June 14, 2005	Submitted to EPA and DTSC. This is the first monthly progress report submitted. Review and comment pending.
Letter requesting an extension for QA/QC Plan Submittal	June 15, 2005	Submitted to EPA and DTSC./ Verbal extension granted by EPA June 2005
Health and Safety Plan	June 17, 2005	Submitted to EPA and DTSC.
Operations and Maintenance Plan	June 17, 2005	Submitted to EPA and DTSC.
Time Line and Schedule	June 21, 2005	Submitted to EPA and DTSC.
Staffing Plan	June 21, 2005	Submitted to EPA and DTSC.
Progress Report - May 2005	June 30, 2005	Submitted to EPA and DTSC.
North Plant Target Extraction Rate Notification	July 25, 2005	Submitted to EPA and DTSC.
Progress Report - June 2005	July 31, 2005	Submitted to EPA and DTSC
Progress Report - July 2005	August 31, 2005	Submitted to EPA and DTSC
Letter requesting an extension for Baseline Mitigation Plan Submittal	September 22, 2005	Submitted to EPA and DTSC/ Extension approved by EPA- September 27,2005
Progress Report - August 2005	September 30, 2005	Submitted to EPA and DTSC
Letter requesting an extension for the OSAP and the QA/QC Plan	October 5, 2005	Submitted to EPA and DTSC/ Extension approved by EPA- October 14,2005
Progress Report - September 2005	October 31, 2005	Submitted to EPA and DTSC
Letter requesting an extension for the OSAP and the QA/QC Plan	November 8, 2005	Submitted to EPA and DTSC/ Extension approved by EPA- November 17,2005
Coordination Plan for November Sampling Event	November 8, 2005	Submitted to EPA
Operational Sampling Analysis Plan (OSAP)	November 8, 2005	Submitted to EPA and DTSC
Quality Assurance/Quality Control Plan (QA/QC)	November 21, 2005	Submitted to EPA and DTSC
Progress Report - October 2005	November 30, 2005	Submitted to EPA and DTSC
North Plant Target Extraction Rate -Sustainable Rates Letter	December 5, 2005	Submitted to EPA and DTSC
Preliminary Review of the Muscoy OU Capture Analysis Reports (August and September 2005)	December 6, 2005	Submitted To EPA and DTSC
Progress Report - November 2005	December 20, 2005	Submitted to EPA and DTSC
Letter requesting an extension of time for the Baseline Mitigation Plan	January 19, 2006	Submitted to EPA and DTSC
Progress Report - December 2005	January 30, 2006	Submitted to EPA and DTSC
Progress Report - January 2006	February 28, 2006	Submitted to EPA and DTSC
Preliminary Draft Baseline Mitigation Plan	March 1, 2006	Submitted to EPA and DTSC
Progress Report - February 2006	March 30, 2006	Submitted to EPA and DTSC

# Table 6-3 Summary of Newmark Groundwater Flow Model Construction Activities February 2006

Modeling Component	Progress Summary						
	Activities Conducted During The Reporting Period						
Data Compilation	Continue to catalogue data received to date     Update data sets with 2005 data, as it is received						
Conceptual Model Development	1) Documented conceptual model approach, process and results 2) Performed Quality Control review of lithology model in the vicinity of the IRA system through detailed analysis of spinner logs, chemistry data, and head data 3) Reconciled basin-wide lithology interpretations between NGFM and basin model						
Model Construction	1) Evaluated flow layers (location, thickness, elevation) 2) Initiated Construction of Simulation 7 (refined flow layers) 3) Developed methodology for input of aquifer properties (Simulation 8) 4) Prepared data sets for redefined stress periods (monthly from 1983 through 2005) 5) Compiled data sets for multi-node well package and identified where package will be applied 6) Evaluated land use coverage for application of precipitation and/or return flow evaluation						
Model Calibration	Address comments from Draft Calibration Plan     Compiled and reviewed data sets for inclusion as calibration targets     Calibration continued with evaluating each of the above described runs with the USGS model for calibration of water balance and head values						
Meetings	No meetings scheduled this period						
	Activities Planned/Conducted in March/April, 2006						
Data Compilation	Continue to catalogue data received to date     Update data sets with 2005 data, as it is received						
Conceptual Model Development	1) Distribute the Conceptual Model Technical Memorandum to TAC						
Model Construction	1) Continue to methodically refine model as follows:  a) Incorporation of hydrostratigraphy detailed in the conceptual model (Simulation 7)  b) Refine aquifer parameters (Simulation 8)  c) steady state calibration (Simulation 9)  d) annual stress period calibration (Simulation 10)  e) initial refined calibration (Simulation 11)  2) Distribute model update and revised schedule to TAC						
Model Calibration	Incorporate comments to the Calibration Plan and issue distribute response to comments     Initiate execution of the Calibration Plan						
Meetings	1) Working Group Meeting tentatively scheduled for March						

#### Note:

The Newmark Groundwater Flow Model is being co-developed with the Regional Basin Flow Model. As such, the City of San Bernardino Water Department's consultant (SECOR) is working jointly with San Bernardino Valley Municipal Water District's consultant (GEOSCIENCE Support Services) to fulfill both parties' modeling objectives. This table provides a summary of the activities performed and activities planned in support of this joint venture.